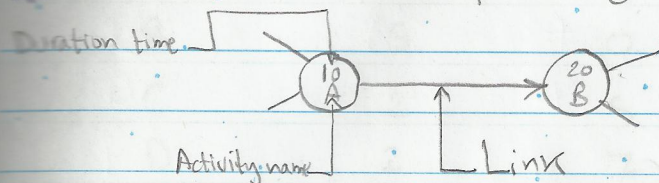
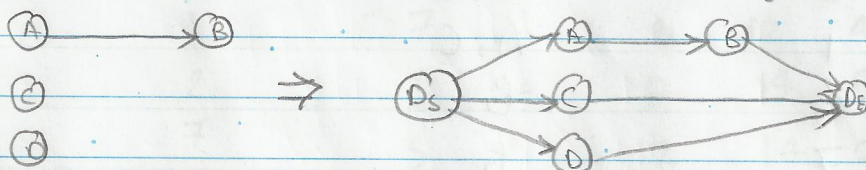


## 2. Basic precedence diagram

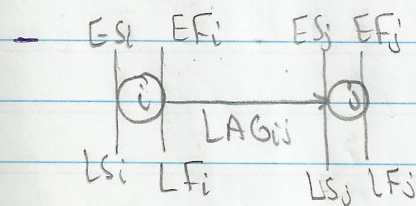
\* Nodes are instead of arrows



- Dummy activity is used at start & end only



- Each level of dependency contains activities



$$\text{Link lag} = \text{ES}_j - \text{EF}_i$$

$$\text{TF}_i = \text{LF}_i - \text{EF}_i = \text{LS}_i - \text{ES}_i$$

$$\text{FF} = \min. (\text{link lag}_{ij})$$

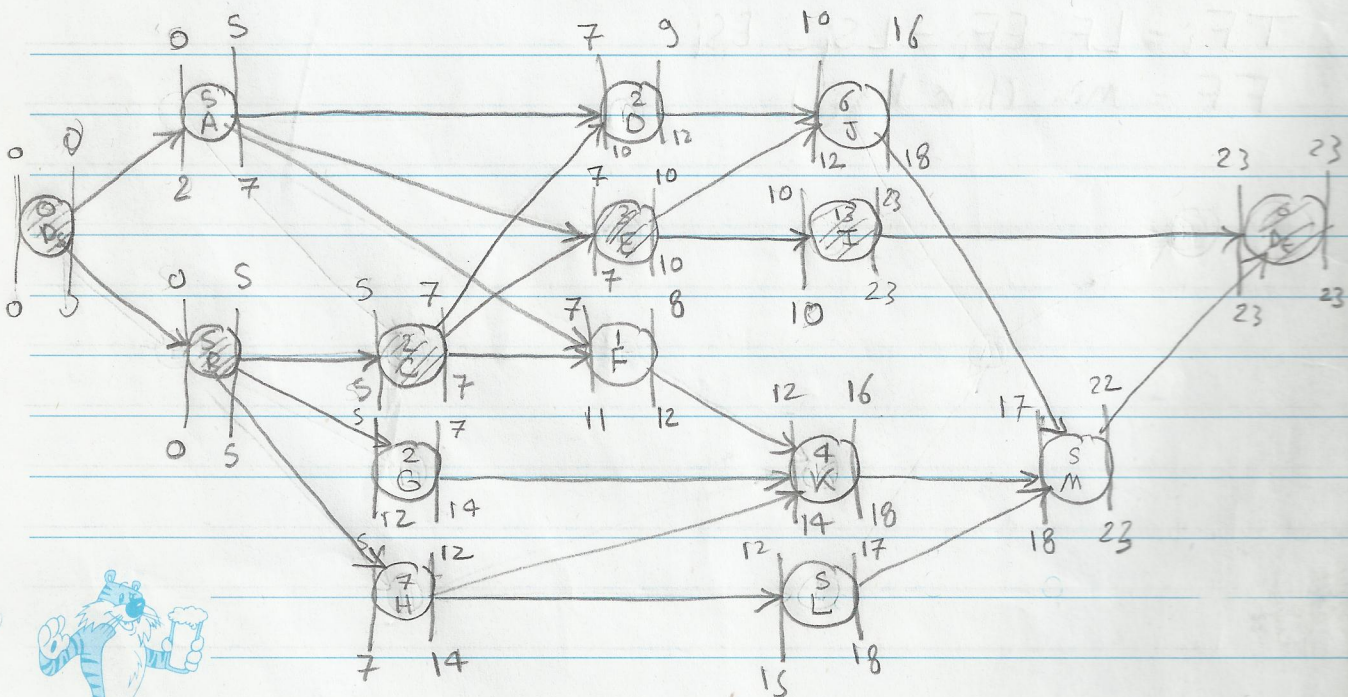


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### \* Example

Activity	Duration(Week)	Predessors	ES	EF
A	5	—	0	5
B	5	—	0	5
C	2	B	5	7
D	2	A, C	7	9
E	3	A, C	7	10
F	1	A, C	7	8
G	2	B	5	7
H	7	B	5	12
I	13	E	10	23
J	6	E, D	12	18
K	4	F, G, H	11	15
L	5	H	12	17
M	5	J, K, L	18	23



T.C.T = 23 week

EL REDA

Critical path: D<sub>s</sub> - B - C - E - I - D<sub>e</sub>



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Activity	Duration	ES	LS	EF	LF	FF	TF
D <sub>s</sub>	0	0	0	0	0	0	0
A	5	0	2	5	7	2	2
B	5	0	0	5	5	0	0
C	2	5	5	7	7	0	0
D	2	7	10	9	12	1	3
E	3	7	7	10	10	0	0
F	1	7	11	8	12	4	4
G	2	5	12	7	14	5	7
H	7	5	7	12	14	0	2
I	13	10	10	23	23	0	0
J	6	10	12	16	18	1	2
K	4	12	14	16	18	1	2
L	5	12	8	17	18	0	1
M	5	17	18	22	23	1	1
D <sub>e</sub>	0	23	23	23	23	0	0

Link	LAG	Link	LAG
D <sub>s</sub> -A	0	D-J	1
D <sub>s</sub> -B	0	E-J	0
A-D	2	E-I	0
A-E	2	F-K	4
A-F	2	J-M	1
B-C	0	I-D <sub>e</sub>	0
B-G	0	K-M	1
B-H	0	L-M	0
C-D	0	M-D <sub>e</sub>	1
C-E	0		
C-F	0		
G-K	5		
H-K	0		
H-L	0		